

**THE RIGHT REV. B. J. M'QUAID'S  
SUCCESSFUL ENTERPRISE.**

The Right Reverend R. J. McQuaid, Bishop of Rochester, besides being an eminent and an energetic pillar of his Church, is an extensive and successful farmer, an experienced vineyardist and an expert wine maker. He took to farming for health and rest, and to escape travelling and being found at public and fashionable watering places, and the luxuriance of the vines and fineness of the grapes grown on his land led him further into grape-growing and then to wine-making. He was a pioneer in the home-made wine industry. He had to extend his efforts in that direction. He had two objects in view, namely, to get an absolutely pure wine for use in the mass, and by the sale of the wine, to create a revenue to help support the pet scheme of his life—the

**THE BISHOP'S RESIDENCE.**

theological seminar now in course of construction at Rochester. For use in the mass wine must consist of the pure and unadulterated juice of the grape, and no wine to which water, sugar, or other ingredients have been added is allowable. To obtain such a wine is a difficult matter, for most manufacturers are more prone to cater to the palate than the conscience. The title to the Bishop's farm has been since it began to pay held in the name of the Rochester Seminary, and all moneys received from the sale of wine or other products of the farm are paid to the treasurer of the seminary.

The Bishop's farm is at Hemlock Lake, in Livingston county, and about forty miles from

Rochester. From South Livonia station, on the Erie Railroad, a country road extends to the farm over Marrowback hill about four miles, for the farm is on its opposite or eastern slope, and reaches down to the lake, with a few fields and a considerable grove of trees. About twenty years ago, when the Bishop was on a visit to the parish priest at Hemlock Lake village—then called Slab City because of the sawmill industry centered there—on the Ontario county side of the lake, he first saw and admired the wild, weird hillsides of the opposite shore, and he has never since been without a human habitation, and he yearned for such a place for a summer home where he might rest, retired from the life of the world, and recuperate his strength, for he was failing health. Straightaway he purchased some of the hillsides, and he has since, with great effort, he has been able to overcome his regret that he has added to its extent. Now he owns 215 acres. While the summer residents have built their cottages by the edge of the lake, and the farmers' homes adjacent to the public roads that run along near the top of the hills, the Bishop has built his residence and farm buildings away from everybody, on the steep slope, and 300 feet above the water. The house contains seven large rooms at a chapel, also a very wide hall. All cooking is done in another house back of the main one, and the house has the appearance of a small patch of vineyard in front, all is woodland. With very little felling, the beautiful vistas could be opened up across the lake, but the Bishop loves the old trees as the retirement they insure him. The trees are chestnut, iron, white pine, hemlock, and tulio. The farm lands and vineyards run to the right and left of the buildings and up the hill side to the public road. The Bishop does considerable farming, keeps a flock of sheep, a several cows, and cultivates grain, hay, and vegetables. But the chief business of the benefit of the vineyards, the main object being to make manure for the vines. No year, however, when the new summer Rochester will be in running order, farming a business is to be pushed more energetically for the Bishop hopes to be able to supply several hundred barrels of wine, port, portofino, and other farm products.

on began plauting fruit trees, grape vines, and other crops to make home comfortable and to give his family something to do. He found that he has always had. When his grape vine began to bear, in greater quantity than he could consume on the farm and at his house in Rochester as table fruit, he made a little wine of the surplus, and he soon found out that he was doing a profitable business. He gathered with the demand for absolutely pure wine, and the suitability of his farm for grape growing, he took to making wine as a business, and about two years ago he began it in earnest. He studied the art of wine making by observation, and extended his vineyards, built wine cellars, and employed an experienced Frenchman to make the wine. He is now in France, and an expert wine maker or cellarman as he is also called, likewise a Frenchman in the art of wine making. His cultivation and wine making on the place is thoroughly light, perfected, and unobscured. He has several assistants, and under his artful hands, the wine is made in the best manner. The first vintage was 2,000 gallons, and it has increased steadily since then, except in 1884, when it was only 1,500 gallons, owing to adverse climatic conditions. It amounts to only 1500 gallons. Last year it was 2,000 gallons, and it is expected to be far greater. The increase and it is expected that 2,000 gallons will be made. The vineyard, more extensive, clear convenience, and improved mechanical appliances, it is hoped, will produce a still better result.

**YOUNG VINES ON THE TRELLIS.**

indeed, it is from this variety that the best champagne is made; Hartford and Champlain, although not much favored as table wines, are the most popular and the majority of the Hartford is that it does not drop its berries there as soon as they are ripe, as it does in most other places, even at Rochester. Worden ripens so early and thoroughly and is so sugary that it makes a fine red wine. Barry and Agawam, too, are good, but the former is hardly so good there as it is about Rochester. Stacey's Seedling is comparatively unknown. It originated with a fruit grower named Stage, at Hartford, near Rochester, and is an excellent wine grape, but not desirable for table use. It is also remarkable for its cleanness and healthfulness. So far the Niagara has not been a success with the Bishop, and the wine made from it has not been satisfactory. It is planted largely in the neighborhood, however. Some of the regular wine grapes, Clinton, for instance, have been disappointing. About 400 Catawbas are planted, and when they ripen will make a fine wine, but they do not ripen always. The same fault is found with the Iona, also an excellent

**CULTIVATION.**—The Bishop does not propagate his own vines; he can buy a cheaper one from the nurserymen than he can raise them, and gets just as good, if not better, stock, for it is a more certain thing to get a vine of the right convenience for the purpose. He prefers two-year-old plants for setting out, but sometimes he uses extra young ones for the earlier success of the plants in the spring in consequence to fall. In the fall, when it is time to plant, every one is busy gathering and storing up the vines for the coming year, and it is difficult to plant properly; besides, fall-set plants are likely to be heaved out of the ground by frost in the winter, and the vines are killed in the spring. In the earlier plantations he used to let the vines branch from the ground, making a vineyard of the kind called "bush vines," but particularly that the vines shall be one-stemmed, only until they reach the first wire. That is a more certain way of getting a vine to be used in the vineyard. In the case of one-

A black and white line drawing of a two-story barn with a gambrel roof, a chimney, and a wooden ramp leading to a second-level entrance. The barn is situated on a rocky, uneven terrain.

stomped plants the machine will hoist right up to the stems, leaving very little to do for the hands. On several-stemmed vines two or three times as much work is left for the hands here, which is why the Concord is not so popular for money; and a one-stemmed plant is just as good as a many-stemmed one.

On a vineyard across the hills and across the hillsides and not up and down them as we sometimes see, and they are eight feet apart in the rows, and the vines are trained in a single row from rushing down the hillsides. This gives plenty of room for cultivating the ground between the vines.

Vigorous vines, like the Concord, are planted eight feet apart in the rows, but slender ones are planted ten feet apart. The vines are trained on supports to which the vines are trained are three-wired trellises, made of chestnut posts, and the vines are trained on the wires. The posts are stout, the inner ones about the size of stout split rail, and, as they stand in the level of the ground, they are cut off at the chestnut. The posts are cut in winter, from the chestnut. Trees growing on the place, instead of being cut off at the chestnut, are cut off at a size; then they are pointed with an axe, and the pointed end is driven into the ground. Hardwood is never used for posts, for the chestnut is a durable timber—yellow locust, red cedar, or chestnut. The chestnut is the best, and it is the best the bark on will soon rot, whereas the other wood peeled and thoroughly seasoned will last a long time.

The ground is moderately level or even the posts are set twenty-five feet apart in the row, but the vines are trained in a single row, and the posts have to be set closer to admit of the vines being lightened evenly and at an equal distance from the ground. The vines are driven into the ground by a heavy mallet, and, of course, are never driven deep enough to be injured by frost. The vines are trained in winter, so they are always heavier more or less. But little notice is taken of that for the trouble of the vines is not so great as the trouble of the frost has left the ground, before the vines buds swell, a couple of men, with horse and mallet, take the vines and drive them into the ground with a mallet, then turn around and does the same to the post on his left-hand side, firming the vines to the post. The vines are trained six inches above ground, the second wire about eighteen inches from that, and the third, or outer wire, about eighteen inches from the second, or second one. They are retightened every spring, and it is to prevent straining the posts, and to tighten the vines. The vines are heavy post is used in each end of the rows.

two lower branches are trained horizontally to the lower vine, and the two upper shoots are trained horizontally to the upper vine. The old wood is not tied to the upper wire; it is reserved for the young growth. The new growth is trained horizontally to the wire which hold good all summer. In June, when the vines have started into vigorous growth, the lower shoots are trained horizontally, so that they are likely to be broken, discolored, and in the way. The workmen spread out the lower shoots horizontally, and tie them diagonally upward to the top wire, and fasten them in place with a few straws of the old wood. The lower shoots are made so brittle and break soon, because after a few weeks the tendrils of the young growth are trained horizontally to the upper wire in place independent of any artificial fastening. Green houses (*lancet*) are also used for the vines, but they are not so common. The plants are liked better than the green ryegrass. About the middle or end of July some of the vines are trained horizontally to the second branch, and must be tied in or shortened. In shortening them care is taken not to break the vines. The vines are trained one-third of the cane, just enough to cause it to stiffen its leaves and firm its wood without any bending. Abundant foliage is of primary importance to the grape. The shade afforded by it is very important. The vines are trained in a profitable physiology that healthful foliage is an indication of healthful roots, and in order to get the most profitable results from the vines, and as a grower cannot have good grapes without good roots, he must encourage good foliage. The vines are trained in a way that no crop is planted in the space between the rows of vines. Some years ago potatoes were planted in the space between the rows of vines. Proper cultivation of the land in the summer, that their cultivation has been discontinued. The vines are trained in a way that they are not fallen, and any time through the winter. A large number of vines are trained in the same way. In December the vines are trained in the same way.

farmer, that close shelter is necessary for the vines. A fruitful, as may be seen in the case of the vines next the woods in the vineyard, is the best position for a vineyard is a full, open exposure. He believes in fertilizing the soil for grapes and does not intend to get a paying crop from starved land. He will not raise a crop unless he pays. Lots of manure and lots of grapes is his text. Composted farmyard manure is the only kind he uses, he having ignored artificial fertilizers. Not only does he jealously preserve the manure made on the farm, but increases its bulk by adding all the refuse from his farm, and the manure of green manure for any crop; all the manure made on his farm is composted for a year before it is put upon the land. In making up these compost heaps a large mass of muck or sawdust is added, and put up with the manure in alternate layers in the usual oblong square heap, and then all is covered over with a thick coating of earth to prevent the escape of ammonia and keep the heap moist. Grape pomace is thrown on the top to amonicate and broken up and mixed well together, and put upon the land according to necessity and convenience.

THE WINE CELLARS.

The Bishop has three wine cellars. The first two are underground, and the hill, one story underground and one story above




THE EDGE OF  
ground. The entrance to the upper story is at

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Bishop is disatisfied with that arrangement because in November and December, in particular, when fermentation is most active, it is very important that a temperature of about 60° be maintained, and without some artificial means of heating the building that objective cannot be secured readily, nor can the building be ventilated properly in winter. He has resolved to introduce a hot water plant to heat the whole building this year. Vines that are fermenting require an even temperature of 60°, but wines that have ceased to ferment and are bunged up or lotted and stored away to keep do better in a temperature of 45°.

PICKING AND PRESSING.

As wine grapes should be thoroughly ripe before they are expressed, it is desirable to leave them on the vines as long as that can be done with safety from dropping, disease, or frost. At Hemlock Lake, however, dropping and disease affect them so little that they receive no consideration; the only care is to pick them in before a sharp frost strikes them. The picking is done by women and girls. Some come from the neighborhood and some of night, and others come from a distance and are lodged on the place in a very nice cottage by themselves, with all the usual comforts. They work eight hours a day, from 8 A. M. till 5 P. M., with an hour at noon for luncheon, and are, and they are to be, at perfect liberty to eat all the grapes they wish to.



ST. BARNABAS.

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In the bung it is bent over the top of block tin with a perforation of about a quarter of an inch in diameter. The bung is bent over about five inches above the bung before it is bent over, and the downward pull of the loop is about five inches long. A glass vessel, tumbar-shaped and holding about a quart of water, is stood on the barrel beside the bung, and the cystic end of the tube dips into the water in the first two or three inches. That allows the free escape of carbonic acid gas from between the gask and the staves. It also excludes the air. The barrels are examined frequently and kept full of a surplus barrel of each is always being kept on hand.

Again in February the racking-off process begins, closing the wine from the vessels. It is done, using only fresh clean barrels. When the empty barrels are on the same or a higher level than the full ones, that is done by pumping the wine out of the one barrel into the other; but when the empty barrel is on a lower level, a siphon is used. The barrels will be considerably sediment near the bottom of the barrels, only about three-fourths to two-thirds full. The sediment is raked off, the clear retaining the sediment are racked off together, and in due time poured again in the clear barrels. The barrels are again in May and November. The following vint they are racked off twice in the summer, and in the winter they are raked off and free from fermentation. They are raked off again twice the third



THE VINEYARD.

year. It is not often, however, that they need

The Bishop generally keeps his fine wines three or four years before he sells them, and they are of a fine, elegant flavor, and of their rare excellence. When they are about three or four years old they are bottled, and are of a fine, elegant flavor, and of their rare excellence. When they are about three or four years old they are bottled, and are of a fine, elegant flavor, and of their rare excellence. When they are about three or four years old they are bottled, and are of a fine, elegant flavor, and of their rare excellence.

also; the corks are bought by the barrel in New York. The lee, or thick sediment from the wine, obtained after repeated rackings, forms an article of commerce also. It is sold to color makers who manufacture a dye from it, and chemists who get tartaric acid from it. In saving it a cloth is spread over the bottom of the empty wooden trays, that had been used in holding the ripening grapes, and they are set outdoors in the sun-shine, and the thick sediment is poured into them to evaporate the liquid in it, and become hard and dry. The dried lee is then broken and spread out upon the floor of one of the buildings to become better dried.

The Hishon is of the opinion that the grand wines of France, the Rhine, and Hungary can never be equalled in America or any other country, but the good middle wines of this country, honestly made and with no adulteration, surpasses today the ordinary wines of the European countries. Unfortunately, however, the desire for money makes many of our wine-makers adulterate their wines, and the adulteration is done to an alarming extent. Some dealers buy up the cheap wines and fix them up to suit the American taste with water, brandy, sugar, and other things. In some cases the quality is so poor that the cheap wines is one of the leading subjects. In France and Germany the use of salicylic acid and wine-makers' adulteration is forbidden by law, but for export purposes there is no in-

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**A LANDING PLACE.**

from the lake the city of Rochester gets its water supply. It is 385 feet higher than the lake, but at present in winter, dot its edges wherever a space wide enough can be had to build cofferage out. They are mostly on the Ontario county side, because a narrow wagon road runs along the flank of the hill there the full length of the lake. Most of the cofferages will surge the water 10-12 and between stand the road. The forest trees afford shade to and shelter, and in the absence of aeromotor-stoves, fuel also. As there is no roadway near the lake on the Livingston county side, nor possibility of making one, fewer cofferages are on that side. The only way of getting to them is by boat, but every one faces his own or more, and a public steamboat piers on the water. There are no fogs on the lake. At the northern end of the lake is a hotel, and a stage line between it and the Livonia railroad station, several miles distant. By election

granted for the sale of liquors. That rings to the neighborhood quiet, respectability and the absence of any vice, best, and the delightful recreations of boating and fishing. It is a retreat for editors and sages, as well as for the young and the old. There are eight clergymen, including Rev. George Ward of the Presbyterian church at Danville, S. L., and the Rev. Mr. J. H. H. of the Episcopal church. Mr. A. Bunnell of the Danville *Advertiser*, and Mr. O'Connor of the Rochester *Post-Express* find it profitable to establish their offices at the O'Andrews cottages on the lake, because to Tom Karl, the tender singer, the lake is a musical instrument. The lake trout are caught here. Fish poisoning by means of seines and set lines, and spoiling the fish in the water by the use of bottles and bait, are being prosecuted considerably, but a recent act of the Legislature and a determined stand taken by the cottagers and the legal advisers, will prevent any further such practices.

A noteworthy point in connection with the cottages by the lake is the rigid sanitary arrangements enforced by the city of Rochester to prevent the water becoming contaminated in any way by drainage or other impurities. Drains are not allowed to run into the lake, and outhouses cannot be erected close to its edges. It is the duty of the city's superintendent of water works, who is resident at the lake, to enforce this rule, to provide every cottage with an ample sheet-iron vessel to hold the deleterious matter, and to send a row-boat to collect the vessels with their contents, leaving empty clean ones in their place. The row-boats fill the full vessels to a dock at the north end of the lake, where they are lifted on to a small railroad track, on which they are sent out some distance to a dumping place prepared for the purpose in the country.

SEMINARY AND CEMETERY.

The Theological Seminary, the pride of the Bishop's household, is a spacious, substantial and magnificent brown-stone structure on Lake View avenue, one and a fourth miles beyond a city hall and three miles and a half from St. Patrick's Cathedral, beside which is the

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the transverse gate is a plot containing seventeen kinds of elms in beautiful health. They consist of a handsome specimen of the Siberian elm, some fine Camperdown elms, and other forms of the Scotch, English, and American elms. Firs, junipers, and spruces do remarkably well and easily sheltered by other trees is a good specimen of the Lawson cypress (*Chamaecyparis Lawsoniana*), whose hardiness so far north is something remarkable. The European larch is planted largely and is very beautiful and there are many yellow pines, spruces, and firs. The forest is dense shelter belts have been made in the lower parts to break the fierce winds and snowdrifts in winter, and in them Austrian pines face the wind. Then come Norway spruces and white pines, pretty close together. An avenue of Lombardy poplars, half a mile in length and straight as an arrow, is an imposing sight. The poplars are in the line, well branched and leaved, twenty-five to thirty feet high, and eighteen feet apart. Between them and behind them young Norway spruces are growing to serve as a wind break.

**Weak** he testifies: "I have used Ayer's Sarsaparilla with abundant success. In tubercular disease, I have scarcely an alternative, it is beyond all praise."

**Strong** "I am convinced that after liver complaint, Ayer's Sarsaparilla is the best physicians being unable to cure, but after the use of your medicine without loss of sleep, appetite, or bowels, I was cured."—MRS. J. C. AYER.

# AYER'S Sarsaparilla

Prepared by Dr. J. C. Ayer & Co., Lowell, Mass.

**Has cured others,**

**SUGAR FROM BEETS.**

**Growth of the Beet Industry in Europe Now the Roots are Cared For—Possibilities of the Crop in this Country.**

For the past ten years the agricultural output of our country has been a gloomy one. Nothing has not been remunerative. In the States farms have been abandoned, except near large towns, where small fruits and vegetables can be grown at a profit. In newly settled States, where manures are

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These are not very many farms. In fact the majority of them, since the farmer's gross return is as much as the better class of a workman receive from their year's work, consequently our farmers are looking more to cereals, fruits, vegetables, or the growing of stock. The sugar beet industry has been discussed and earnestly advocated many times, but it is not so profitable as any of the other branches of agriculture. I advocate, say, if introduced in this country, wheat and it would be made as in

That the industry is a profitable one established does not admit of a question because it would not be pursued if it not. But it does not follow that because it is profitable that it is the welfare of the best sugar that we can. If it were a matter of intelligence or industry it would be itself, and the only consideration would be if it pay. But there are climatic conditions as well as those of soil, that must be considered, quite as much as our necessities and enterprise.

It is difficult to understand the situation in the review of the industry as carried on in France and Germany, and state some very important facts connected with the same that are not generally understood, facts that were learned on the farms, factories, and seed fields in the countries above mentioned. It is to be regretted that many of the statements made in the review are not only not correct, but are official, and do not clearly state the facts as they are. Some of the statements are misleading, not from any disposition to misrepresent, but because they are not understood. It requires far more than a casual view of the farms on which the beets are raised, or a visit to the vast factories where the beets are converted into sugar, to know anything of the industry, and to ascertain the scientific principles involved that must be understood, as well as the cost of the knowledge required, before the slightest idea can be formed as to the practicability of its introduction in this country. In order to be understood, let us take a hasty glance at the history of sugar making from beets.

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ER'S Sarsaparilla with abundance and all forms of scrofula never known it to fail. As an aise, both for old and young," having been sick a whole year Sarsaparilla saved my life. The to help me, and having tried it, I at last took Ayer's Sarsaparilla, and I feel that I can recommend it to all who suffer from scrofula. J. Schubert, Kansas City, Kans.

# Sarsaparilla

Mass. Sold by All Druggists

**will cure you**

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argument in favor of growing beets for food, that this industry should be established, as the best crop, an important auxiliary to a wheat crop; that the beet, or its roots, is the soil's only source of nourishment for wheat; by supplying those elements the wheat requires, and which have been exhausted by previous crops. Then there can be no greater mistake, the opposite being the result. The soil has not in condition to produce roots of high value only by sowing two crops of wheat—three would be of equal similar crop; those restore soil the elements the beet takes out.

es the roots too large, without a corre-  
sponding amount of saccharine matter, the  
sugar is small, and the plant is not fit  
for purposes for which it is grown. In this  
is a conflict between the far and the  
near, the use of the soil and the use of  
the farmer wants size, while the latter wants  
y. Hence the necessity of a chemical  
analysis of the soil value.

the next point for consideration is, are  
the conditions of soil and climate suited to  
the cultivation of this crop? This matter the  
farmer has to settle in his own mind, and  
the plant for the making of sugar. This  
being settled, the next consideration  
is, what means are there of making the  
necessary steps to be taken? It  
does not follow that the seed grown in Europe  
is adapted to the soil and climate of the  
different conditions in many parts of our  
country. It must be borne in mind that in  
normal soil and climate, the seed is occu-

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of a coarse spirit, which is chiefly in the adulteration of brandy. As foccaltelli the sugar cake is very valuable. It been asserted that the refuse from the distilleries can be used to fatten a bul- more than double its value.

statements made to me by those only interested in the industry, it can be made profitable where it can be made on a large scale, where the farmers are paid with moderate returns for their labor, where there is a vast extent of territory, where the climate is not too hot to sudden and extreme changes, and every particle of refuse can be used, for the waste of the distilleries is considerable. We will use daily the product of ten acres, it easily be seen, when we consider the land is so fertile, that it is not necessary that a considerable extent of territory be required to supply a factory of moderate capacities. The waste of the distilleries in the delivery of the beets to the factory is four times as great as that of a given acre of cereals of the same value.

C. L. ALLEN.

**MCLAUGHLIN THREW THE BULL.**

**Famous Wrestler Cross-buffed the**  
**Big Horn Chief.**

ATTLE, July 25.—Col. J. H. McLaughlin, the champion collar-and-elbow wrestler in the world, has just come off victor in a struggle for life with a bull. The Colonel en- as a private in the Twenty-sixth In- fantry at the beginning of the civil and after a service of four years and four he came out a Colonel in the Twen- ty-first New York Cavalry. He was the first to be killed at Big Horn, where he acquired great reputation as a wrestler. Late- ly he indulged in none of these athletic contests, years since he came to Seattle, and is now his home.

ay or two ago he had an opportunity to that he had not lost his former skill. He was crossing a ten-acre lot, filled with stumps and fallen timber. He was in the centre of the lot, when he saw a big red coming toward him. Supposing the bull of a peaceful disposition, Col. McLaugh- lin dallied leisurely along until, warned by the following, he turned and saw the bull

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